According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial preparation date: 02.22.2018

# **Calcium Metal**

## **SECTION 1: Identification**

# Product identifier

Product name: Calcium Metal Product code: CA1000

# Recommended use of the product and restriction on use

Relevant identified uses: Laboratory chemicals Uses advised against: Not determined or not applicable. Reasons why uses advised against: Not determined or not applicable.

## Manufacturer or supplier details

Manufacturer: United States AquaPhoenix Scientific, Inc. 860 Gitts Run Road Hanover, PA 17331 1-717-632-1291

Emergency telephone number: United States ChemTel 800-255-3924 1-813-248-0585

#### SECTION 2: Hazard(s) identification

#### **GHS classification:**

Substance and mixture, which in contact with water, emit flammable gas 2 Combustible dust

# Label elements

## Hazard pictograms:



## Signal word: Danger

#### Hazard statements:

H261 In contact with water releases flammable gas H900 May form combustible dust concentrations in air

#### **Precautionary statements:**

P223 Keep away from any possible contact with water, because of violent reaction and possible flash fire P280 Wear protective gloves/protective clothing/eye protection/face protection

P231+P232 Handle under inert gas. Protect from moisture

P335+P334 Brush off loose particles from skin. Immerse in cool water/wrap in wet bandages P370+P378 In case of fire: Use agents recommended in section 5 for extinction

P501 Dispose of contents and container as instructed in Section 13

# Hazards not otherwise classified: None

# **SECTION 3: Composition/information on ingredients**

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# **Calcium Metal**

Identification	Name	Weight %
CAS number: 7440-70-2	Calcium	100

### Additional Information: None

#### **SECTION 4: First aid measures**

## **Description of first aid measures**

#### **General notes:**

Not determined or not applicable.

## After inhalation:

Loosen clothing as necessary and position individual in a comfortable position Maintain an unobstructed airway Get medical advice/attention if you feel unwell

#### After skin contact:

Rinse affected area with soap and water If symptoms develop or persist, seek medical attention

#### After eye contact:

Rinse/flush exposed eye(s) gently using water for 15-20 minutes If symptoms develop or persist, seek medical attention

## After swallowing:

Rinse mouth thoroughly Seek medical attention if irritation, discomfort, or vomiting persists

#### Most important symptoms and effects, both acute and delayed

#### Acute symptoms and effects:

Not determined or not applicable.

#### **Delayed symptoms and effects:**

Not determined or not applicable.

#### Immediate medical attention and special treatment

#### **Specific treatment:**

Not determined or not applicable.

### Notes for the doctor:

Not determined or not applicable.

# **SECTION 5: Firefighting measures**

### **Extinguishing media**

#### Suitable extinguishing media:

Use appropriate fire suppression agents for adjacent combustible materials or sources of ignition

# Unsuitable extinguishing media:

Do not use water as an extinguisher

#### Specific hazards during fire-fighting:

Thermal decomposition can lead to release of irritating gases and vapors Contact with water emits flammable gas

## Special protective equipment for firefighters:

Use typical firefighting equipment, self-contained breathing apparatus, special tightly sealed suit

# **Special precautions:**

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Carbon monoxide and carbon dioxide may form upon combustion Heating causes a rise in pressure, risk of bursting and combustion

## **SECTION 6: Accidental release measures**

## Personal precautions, protective equipment and emergency procedures:

Ensure adequate ventilation Ensure air handling systems are operational Wear protective eye wear, gloves and clothing

#### **Environmental precautions:**

Should not be released into the environment

## Methods and material for containment and cleaning up:

Wear protective eye wear, gloves and clothing Sweep or scoop up solid material while minimizing dust generation Dispose of contents / container in accordance with local regulations

#### **Reference to other sections:**

Not determined or not applicable.

## **SECTION 7: Handling and storage**

## Precautions for safe handling:

Use only with adequate ventilation.

Do not eat, drink, smoke or use personal products when handling chemical substances.

Avoid generating/breathing dust.

Do not expose material to water.

# Conditions for safe storage, including any incompatibilities:

Keep container tightly sealed. Keep container dry. Store in a cool, well-ventilated area. Store away from water.

#### **SECTION 8: Exposure controls/personal protection**

Only those substances with limit values have been included below.

#### **Occupational Exposure limit values:**

No occupational exposure limits noted for the ingredient(s).

## **Biological limit values:**

No biological exposure limits noted for the ingredient(s).

#### Information on monitoring procedures:

Monitoring of the concentration of substances in the breathing zone of workers or in the general workplace may be required to confirm compliance with an OEL and adequacy of exposure controls. Biological monitoring may also be appropriate for some substances.

#### Appropriate engineering controls:

Emergency eye wash fountains and safety showers should be available in the immediate vicinity of use or handling.

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapor and mists below the applicable workplace exposure limits (Occupational Exposure Limits-OELs) indicated above.

#### Personal protection equipment

# Eye and face protection:

Safety goggles or glasses, or appropriate eye protection.

Skin and body protection:

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## **Calcium Metal**

Select glove material impermeable and resistant to the substance. Wear appropriate clothing to prevent any possibility of skin contact.

#### **Respiratory protection:**

If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn.

#### **General hygienic measures:**

Avoid contact with skin, eyes and clothing. Wash hands before breaks and at the end of work. Wash contaminated clothing before reuse.

#### SECTION 9: Physical and chemical properties

#### Information on basic physical and chemical properties

Appearance	Silver-white crystals
Odor	Not determined or not available.
Odor threshold	Not determined or not available.
рН	Not determined or not available.
Melting point/freezing point	845 °C
Initial boiling point/range	1484 °C
Flash point (closed cup)	Not determined or not available.
Evaporation rate	Not determined or not available.
Flammability (solid, gas)	Not determined or not available.
Upper flammability/explosive limit	Not determined or not available.
Lower flammability/explosive limit	Not determined or not available.
Vapor pressure	10 mmHg at 983 °C
Vapor density	Not determined or not available.
Density	Not determined or not available.
Relative density	Not determined or not available.
Solubilities	Decomposes.
Partition coefficient (n-octanol/water)	Not determined or not available.
Auto/Self-ignition temperature	Not determined or not available.
Decomposition temperature	Not determined or not available.
Dynamic viscosity	Not determined or not available.
Kinematic viscosity	Not determined or not available.
Explosive properties	Not determined or not available.
Oxidizing properties	Not determined or not available.

### **Other information**

Specific gravity

1.54 at 20 °C/4°C

## **SECTION 10: Stability and reactivity**

#### **Reactivity:**

Reacts violently in contact with water.

#### **Chemical stability:**

Stable under normal conditions of use and storage.

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### **Calcium Metal**

## Possibility of hazardous reactions:

Contact with water emits flammable gas.

# **Conditions to avoid:**

Avoid exposure to water.

## Incompatible materials:

Strong oxidizing agents, strong acids and bases.

## Hazardous decomposition products:

None known.

## **SECTION 11: Toxicological information**

#### Acute toxicity

**Assessment:** Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data: No data available.

## Skin corrosion/irritation

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data: No data available.

# Serious eye damage/irritation

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data: No data available.

#### Respiratory or skin sensitization

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data: No data available.

#### Carcinogenicity

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data: No data available.

International Agency for Research on Cancer (IARC): None of the ingredients are listed.

National Toxicology Program (NTP): None of the ingredients are listed.

#### Germ cell mutagenicity

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data: No data available.

#### **Reproductive toxicity**

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data: No data available.

# Specific target organ toxicity (single exposure)

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data: No data available.

#### Specific target organ toxicity (repeated exposure)

**Assessment:** Based on available data, the classification criteria are not met. **Product data:** No data available.

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Substance data: No data available.

# Aspiration toxicity

**Assessment:** Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data: No data available.

Information on likely routes of exposure: No data available.

Symptoms related to the physical, chemical and toxicological characteristics: No data available. Other information: No data available.

# **SECTION 12: Ecological information**

## Acute (short-term) toxicity

Assessment: Based on available data, the classification criteria are not met. Product data: No data available. Substance data: No data available.

## Chronic (long-term) toxicity

Product data: No data available.

Substance data: No data available.

## Persistence and degradability

Product data: No data available. Substance data: No data available.

## **Bioaccumulative potential**

Product data: No data available.

Substance data: No data available.

#### Mobility in soil

Product data: No data available. Substance data: No data available.

Other adverse effects: No data available.

# **SECTION 13: Disposal considerations**

# Disposal methods:

It is the responsibility of the waste generator to properly characterize all waste materials according to applicable regulatory entities

# **SECTION 14: Transport information**

# United States Transportation of dangerous goods (49 CFR DOT)

UN number	UN1401	
UN proper shipping name	Calcium	
UN transport hazard class(es)	4.3	A CONTROL OF
Packing group	II	
Environmental hazards	None	
Special precautions for user	None	

# International Maritime Dangerous Goods (IMDG)

UN number	UN1401

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# **Calcium Metal**

UN proper shipping name	Calcium	
UN transport hazard class(es)	4.3	
Packing group	II	
Environmental hazards	None	
Special precautions for user	None	

# International Air Transport Association Dangerous Goods Regulations (IATA-DGR)

UN number	UN1401	
UN proper shipping name	Calcium	
UN transport hazard class(es)	4.3	autoritas 17
Packing group	II	
Environmental hazards	None	
Special precautions for user	None	

# **SECTION 15: Regulatory information**

# **United States regulations**

7440-70-2	Calcium				Listed
gnificant New L	Jse Rule (TSCA Se	ction 5): Not deter	mined.		
port notificatio	on under TSCA Sec	tion 12(b): Not de	termined.		
ARA Section 31	L/312 hazards:				
Acute	Chronic	Fire	Pressure	Reactive	
No	No	No	No	Yes	
•	extremely hazar	dous substances:	Not determined.	·	
ARA Section 302	L Exclemely nazar				
	8 toxic chemicals:				
	-				Not Listed
ARA Section 313	<b>3 toxic chemicals:</b> Calcium				

### Massachusetts Right to Know:

	7440-70-2	Calcium	Listed			
Ne	New Jersey Right to Know:					
	7440-70-2	Calcium	Listed			
Ne	New York Right to Know:					
	7440-70-2	Calcium	Listed			

# Pennsylvania Right to Know:

7440-70-2 Calcium

California Proposition 65: None of the ingredients are listed.

# **SECTION 16: Other information**

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Listed

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## **Calcium Metal**

# Abbreviations and Acronyms: None

## **Disclaimer:**

This product has been classified in accordance with OSHA HCS 2012 guidelines. The information provided in this SDS is correct, to the best of our knowledge, based on information available. The information given is designed only as a guidance for safe handling, use, storage, transportation and disposal and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials, unless specified in the text. The responsibility to provide a safe workplace remains with the user.

# NFPA: 3-0-2

# HMIS: 3-0-2

Initial preparation date: 02.22.2018

## End of Safety Data Sheet